

PATENT CLAIMS

1. Door opener for releasing a door, which is provided with a lock catch counterpart and with a controllable securing element to secure the door opener against unauthorized opening of the door,
characterized in that it is provided with an ejector for ejecting the lock catch (13) from the lock catch counterpart and with a transmission element between the lock catch counterpart and the ejector, with which the [force initiated] by the lock (13) is transferred to the ejector.
2. Door opener according to Claim 1, characterized in that the ejector is mounted on the lock catch counterpart (3).
3. Door opener according to Claim 2, characterized in that the ejector comprises a slide plate (18) that is mounted on the lock catch counterpart so that it can swivel.
4. Door opener according to Claim 3, characterized in that the swivel axis (30) of the slide plate (18) runs parallel to the movement direction of the lock catch counterpart.
5. Door opener according to Claim 4, characterized in that the lock catch counterpart is designed as a swivel catch (3) and that the swivel axis (30) of the slide plate (18) runs perpendicular to the axis (25) of the swivel catch (3).
6. Door opener according to Claim 4, characterized in that the lock catch counterpart is designed as a sliding catch, especially a linear sliding catch.

7. Door opener according to one of Claims 3 to 6, characterized in that the transmission element comprises a lever connection with a controlled two-armed change-over (6), that one lever arm (6'') serves as a locking element for the lock catch counterpart and that the other lever arm (6') is in active connection with a pin (10) that engages with the slide plate (18).
8. Door opener according to one of Claims 1 to 6, characterized in that the two-armed change-over (6) is controlled piezo-electrically, magneto-restrictively, using shape-memory actuators, mechanically, using rheological fluids, hydraulically, pneumatically or with a combination of these methods.
9. Door opener according to one of Claims 1 to 6, characterized in that the transfer element is designed as a Bowden cable, multi-link transmission, pushing element chain or hydraulic system.
10. Door opener according to one of the preceding claims, characterized in that a front part (22) of the lock catch counterpart can be adjusted relative to a base part (21).
11. Door opener according to one of the preceding claims, characterized in that the transfer element is prestressed with a prestress element (28).
12. Door opener according to one of the preceding claims, characterized in that another prestress element (31) is provided to adjust the triggering force.
13. Door opener according to one of Claims 1 to 7, characterized in that a pressure piece (16) is provided between the swivel catch (3) and change-over (6) for calibrating purposes.
14. Door opener according to one of the preceding claims, characterized in that a closed door opener closing plate is provided.
15. Door opener according to one of the preceding claims, characterized in that a roller element is provided on the lock catch counterpart in the contact area of the lock catch (13).